

04/09/98
Jc588 U.S. PRO

Please type a plus sign (+) inside ☐ box → ☐

PTO/SB/05 (8-96)
Approved for use through 9/30/98. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

NEW UTILITY PATENT APPLICATION TRANSMITTAL

(to be used for new applications only)

Attorney Docket Number

First Named Inventor

GREGORY E. JOHNSTON

Total Pages in this Submission

54

APPLICATION ELEMENTS

Notice: Checklist items mentioned under Application Elements section construct a new utility patent application. Please refer to MPEP Sections 506, 601, (37CFR 1.77, 1.53, 35 USC 111, 112, 113) for detailed explanation regarding completeness of an original patent application.

1. ☒ Fee Transmittal Form (prescribed filing fee(s))
2. Specification
 - ☒ Title of the Invention
 - ☐ Cross References to Related Applications (if applicable)
 - ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
 - ☐ Reference to Microfiche Appendix (if applicable)
 - ☒ Background of the Invention
 - ☒ Brief Summary of the Invention
 - ☒ Brief Description of the Drawings (if drawings filed)
 - ☒ Detailed Description
 - ☒ Claim or Claims
 - ☒ Abstract of the Disclosure
3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
4. ☒ Executed Declaration
5. Genetic Sequence Submission (if applicable, all must be included)
 - ☐ Paper Copy
 - ☐ Computer Readable Copy
 - ☐ Statement Verifying Identical Paper and Computer Readable Copy

ACCOMPANYING APPLICATION PARTS

6. ☐ Assignment Papers
7. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
8. ☐ Computer Program in Microfiche
9. ☐ English Translation Document (if applicable)
10. ☒ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
11. ☐ Petition Checklist and Accompanying Petition
12. ☐ Preliminary Amendment
13. ☐ Proprietary Information
14. ☒ Return Receipt Postcard
15. ☒ Small Entity Statement
16. ☐ Additional Enclosures (please identify below):

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm

or

Individual name

GREGORY E. JOHNSTON

Signature

G. Johnston

Date

09 APR 98

FOR OFFICIAL USE ONLY

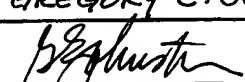
Application Number			Class		Independent Claims	
Date of Receipt	Application Type		GAU		Total Claims	
	Filing Date		Foreign Filing License?		Drawing Sheets	
	Small Entity		Foreign Address?		Special Handling?	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h2 style="margin: 0;">FEE TRANSMITTAL</h2>	Complete If Known	
	Application Number	
	Filing Date	
	First Named Inventor	GREGORY E. JOHNSTON
	Group Art Unit	
	Examiner Name	
Attorney Docket Number		
TOTAL AMOUNT OF PAYMENT (\$) 450		

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																
<p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number </p> <p>Deposit Account Name </p> <p><input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b)</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p style="margin-left: 20px;"><input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<h3 style="margin: 0;">3. ADDITIONAL FEES</h3> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity Fee Code (\$)</th> <th style="text-align: left;">Small Entity Fee Code (\$)</th> <th style="text-align: left;">Fee Description</th> <th style="text-align: left;">Fee Paid</th> </tr> </thead> <tbody> <tr><td>105 130</td><td>205 65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127 50</td><td>227 25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>139 130</td><td>139 130</td><td>Non-English specification</td><td></td></tr> <tr><td>147 2,460</td><td>147 2,460</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112 900*</td><td>112 900*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113 1,790*</td><td>113 1,790*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115 110</td><td>215 55</td><td>Extension for response within first month</td><td></td></tr> <tr><td>116 390</td><td>216 195</td><td>Extension for response within second month</td><td></td></tr> <tr><td>117 930</td><td>217 465</td><td>Extension for response within third month</td><td></td></tr> <tr><td>118 1,470</td><td>218 735</td><td>Extension for response within fourth month</td><td></td></tr> <tr><td>119 300</td><td>219 150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120 300</td><td>220 150</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121 260</td><td>221 130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138 1,470</td><td>138 1,470</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140 110</td><td>240 55</td><td>Petition to revive unavoidably abandoned application</td><td></td></tr> <tr><td>141 1,290</td><td>241 645</td><td>Petition to revive unintentionally abandoned application</td><td></td></tr> <tr><td>142 1,290</td><td>242 645</td><td>Utility Issue fee (or reissue)</td><td></td></tr> <tr><td>143 440</td><td>243 220</td><td>Design Issue fee</td><td></td></tr> <tr><td>144 650</td><td>244 325</td><td>Plant issue fee</td><td></td></tr> <tr><td>122 130</td><td>122 130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123 50</td><td>123 50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126 230</td><td>126 230</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581 40</td><td>581 40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146 770</td><td>246 385</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149 770</td><td>249 385</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td></td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td></td></tr> </tbody> </table>	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105 130	205 65	Surcharge - late filing fee or oath		127 50	227 25	Surcharge - late provisional filing fee or cover sheet.		139 130	139 130	Non-English specification		147 2,460	147 2,460	For filing a request for reexamination		112 900*	112 900*	Requesting publication of SIR prior to Examiner action		113 1,790*	113 1,790*	Requesting publication of SIR after Examiner action		115 110	215 55	Extension for response within first month		116 390	216 195	Extension for response within second month		117 930	217 465	Extension for response within third month		118 1,470	218 735	Extension for response within fourth month		119 300	219 150	Notice of Appeal		120 300	220 150	Filing a brief in support of an appeal		121 260	221 130	Request for oral hearing		138 1,470	138 1,470	Petition to institute a public use proceeding		140 110	240 55	Petition to revive unavoidably abandoned application		141 1,290	241 645	Petition to revive unintentionally abandoned application		142 1,290	242 645	Utility Issue fee (or reissue)		143 440	243 220	Design Issue fee		144 650	244 325	Plant issue fee		122 130	122 130	Petitions to the Commissioner		123 50	123 50	Petitions related to provisional applications		126 230	126 230	Submission of Information Disclosure Stmt		581 40	581 40	Recording each patent assignment per property (times number of properties)		146 770	246 385	Filing a submission after final rejection (37 CFR 1.129(a))		149 770	249 385	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____				Other fee (specify) _____			
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																														
105 130	205 65	Surcharge - late filing fee or oath																																																																																																															
127 50	227 25	Surcharge - late provisional filing fee or cover sheet.																																																																																																															
139 130	139 130	Non-English specification																																																																																																															
147 2,460	147 2,460	For filing a request for reexamination																																																																																																															
112 900*	112 900*	Requesting publication of SIR prior to Examiner action																																																																																																															
113 1,790*	113 1,790*	Requesting publication of SIR after Examiner action																																																																																																															
115 110	215 55	Extension for response within first month																																																																																																															
116 390	216 195	Extension for response within second month																																																																																																															
117 930	217 465	Extension for response within third month																																																																																																															
118 1,470	218 735	Extension for response within fourth month																																																																																																															
119 300	219 150	Notice of Appeal																																																																																																															
120 300	220 150	Filing a brief in support of an appeal																																																																																																															
121 260	221 130	Request for oral hearing																																																																																																															
138 1,470	138 1,470	Petition to institute a public use proceeding																																																																																																															
140 110	240 55	Petition to revive unavoidably abandoned application																																																																																																															
141 1,290	241 645	Petition to revive unintentionally abandoned application																																																																																																															
142 1,290	242 645	Utility Issue fee (or reissue)																																																																																																															
143 440	243 220	Design Issue fee																																																																																																															
144 650	244 325	Plant issue fee																																																																																																															
122 130	122 130	Petitions to the Commissioner																																																																																																															
123 50	123 50	Petitions related to provisional applications																																																																																																															
126 230	126 230	Submission of Information Disclosure Stmt																																																																																																															
581 40	581 40	Recording each patent assignment per property (times number of properties)																																																																																																															
146 770	246 385	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																															
149 770	249 385	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																															
Other fee (specify) _____																																																																																																																	
Other fee (specify) _____																																																																																																																	
<h3 style="margin: 0;">FEE CALCULATION (fees effective 10/01/96)</h3> <h4 style="margin: 0;">1. FILING FEE</h4> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity Fee Code (\$)</th> <th style="text-align: left;">Small Entity Fee Code (\$)</th> <th style="text-align: left;">Fee Description</th> <th style="text-align: left;">Fee Paid</th> </tr> </thead> <tbody> <tr><td>101 770</td><td>201 385</td><td>Utility filing fee</td><td>395</td></tr> <tr><td>106 320</td><td>206 160</td><td>Design filing fee</td><td></td></tr> <tr><td>107 530</td><td>207 265</td><td>Plant filing fee</td><td></td></tr> <tr><td>108 770</td><td>208 385</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114 150</td><td>214 75</td><td>Provisional filing fee</td><td></td></tr> <tr><td colspan="3">SUBTOTAL (1) (\$)</td><td>395</td></tr> </tbody> </table> <h4 style="margin: 0;">2. CLAIMS</h4> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Total Claims</th> <th style="text-align: left;">Independent Claims</th> <th style="text-align: left;">Multiple Dependent Claims</th> <th style="text-align: left;">Extra</th> <th style="text-align: left;">Fee from below</th> <th style="text-align: left;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>2</td> <td></td> <td>-20 =</td> <td>5 X 11 =</td> <td>55</td> </tr> <tr> <td></td> <td></td> <td></td> <td>-3 =</td> <td>0 X =</td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0 X =</td> <td>0</td> </tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity Fee Code (\$)</th> <th style="text-align: left;">Small Entity Fee Code (\$)</th> <th style="text-align: left;">Fee Description</th> <th style="text-align: left;">Fee Paid</th> </tr> </thead> <tbody> <tr><td>103 22</td><td>203 11</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102 80</td><td>202 40</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104 260</td><td>204 130</td><td>Multiple dependent claim</td><td></td></tr> <tr><td>109 80</td><td>209 40</td><td>Reissue independent claims over original patent</td><td></td></tr> <tr><td>110 22</td><td>210 11</td><td>Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="3">SUBTOTAL (2) (\$)</td><td>55</td></tr> </tbody> </table>	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	101 770	201 385	Utility filing fee	395	106 320	206 160	Design filing fee		107 530	207 265	Plant filing fee		108 770	208 385	Reissue filing fee		114 150	214 75	Provisional filing fee		SUBTOTAL (1) (\$)			395	Total Claims	Independent Claims	Multiple Dependent Claims	Extra	Fee from below	Fee Paid	25	2		-20 =	5 X 11 =	55				-3 =	0 X =	0					0 X =	0	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	103 22	203 11	Claims in excess of 20		102 80	202 40	Independent claims in excess of 3		104 260	204 130	Multiple dependent claim		109 80	209 40	Reissue independent claims over original patent		110 22	210 11	Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)			55	<p style="text-align: right;">SUBTOTAL (3) (\$) 0</p> <p style="text-align: right;">* Reduced by Basic Filing Fee Paid</p>																																
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																														
101 770	201 385	Utility filing fee	395																																																																																																														
106 320	206 160	Design filing fee																																																																																																															
107 530	207 265	Plant filing fee																																																																																																															
108 770	208 385	Reissue filing fee																																																																																																															
114 150	214 75	Provisional filing fee																																																																																																															
SUBTOTAL (1) (\$)			395																																																																																																														
Total Claims	Independent Claims	Multiple Dependent Claims	Extra	Fee from below	Fee Paid																																																																																																												
25	2		-20 =	5 X 11 =	55																																																																																																												
			-3 =	0 X =	0																																																																																																												
				0 X =	0																																																																																																												
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																														
103 22	203 11	Claims in excess of 20																																																																																																															
102 80	202 40	Independent claims in excess of 3																																																																																																															
104 260	204 130	Multiple dependent claim																																																																																																															
109 80	209 40	Reissue independent claims over original patent																																																																																																															
110 22	210 11	Reissue claims in excess of 20 and over original patent																																																																																																															
SUBTOTAL (2) (\$)			55																																																																																																														

SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name	GREGORY E. JOHNSTON			Reg. Number	
Signature		Date	09 APR 98	Deposit Account User ID	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.